

Leavenworth County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/28/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 19 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Leavenworth County economy.¹

These 19 sectors have a total direct output of approximately \$140.1 million and support 1,717.5 jobs in Leavenworth County. Running the model for all 19 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Leavenworth County Economy								
Impact Type ²	Employment	% Employment	Total Value Added ³	Gross Regional	Output ⁵	Output % of Gross Regional Product		
				Product ⁴				
Direct Effect	1,717.5	4.26%	\$46,289,957	1.48%	\$140,143,268	4.47%		
Indirect Effect	184.1	0.46%	\$10,019,440	0.32%	\$20,462,682	0.65%		
Induced Effect	123.3	0.31%	\$6,755,702	0.22%	\$14,660,603	0.47%		
Total Effect	2,024.8	5.03%	\$63,065,098	2.01%	\$175,266,553	5.60%		

As shown in the above table, agriculture, food, and food processing sectors support 2,024.8 jobs, or 5.03% of the entire workforce in the county. These sectors provide a total economic contribution of approximately \$175.3 million, roughly 5.60% of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 19 agriculture, food, and food processing sectors is approximately \$63.1 million, or 2.01% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 2.01% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **586.7 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Leavenworth County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	586.7	\$22,540,137		
Landscape and horticultural services	378.2	\$15,802,070		
All other crop farming	260.0	\$6,555,058		
All other food manufacturing	114.6	\$41,969,565		
Veterinary services	96.3	\$8,893,702		
Bread and bakery product, except frozen, manufacturing	69.7	\$9,627,201		
Support activities for agriculture and forestry	55.8	\$3,120,242		
Grain farming	51.4	\$6,330,937		
Greenhouse, nursery, and floriculture production	41.9	\$4,256,818		
Oilseed farming	33.7	\$12,303,492		

The all other food manufacturing sector directly contributes approximately \$42.0 million to the Leavenworth County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
All other food manufacturing	114.6	\$41,969,565		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	586.7	\$22,540,137		
Landscape and horticultural services	378.2	\$15,802,070		
Oilseed farming	33.7	\$12,303,492		
Bread and bakery product, except frozen, manufacturing	69.7	\$9,627,201		
Veterinary services	96.3	\$8,893,702		
All other crop farming	260.0	\$6,555,058		
Grain farming	51.4	\$6,330,937		
Greenhouse, nursery, and floriculture production	41.9	\$4,256,818		
Real estate	26.7	\$4,081,834		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Leavenworth County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	33.7	\$12,303,491.59		
Grain farming	51.4	\$6,330,936.43		
Vegetable and melon farming	2.2	\$284,343.36		
Fruit farming	6.2	\$361,692.94		
Tree nut farming	3.0	\$359,848.44		
Greenhouse, nursery, and floriculture production	41.9	\$4,256,818.29		
All other crop farming	260.0	\$6,555,057.53		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	586.7	\$22,540,136.34		
Dairy cattle and milk production	15.3	\$3,380,771.88		
Poultry and egg production	3.0	\$1,264,532.09		
Animal production, except cattle and poultry and eggs	30.9	\$1,464,016.44		
Commercial logging	1.4	\$54,007.37		
Bread and bakery product, except frozen, manufacturing	69.7	\$9,627,201.08		
Frozen cakes and other pastries manufacturing	2.0	\$288,212.36		
All other food manufacturing	114.6	\$41,969,562.53		
Wineries	5.3	\$1,222,175.12		
All other industrial machinery manufacturing	15.5	\$3,184,687.61		
Veterinary services	96.3	\$8,893,701.55		
Landscape and horticultural services	378.2	\$15,802,069.66		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Leavenworth County, the retail sector was omitted.